



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

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THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
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- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U-S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a> , EFS Submission User Manual cPAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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   U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1803, Arlington, VA 22202

Revised 05/17/04

BEST AVAILABLE OUT

ERROR DETECTE	SUCCESTED CORRECTION SERIAL NUMBER / 1/2 0/	
ATTN: NEW RULE	SERIAL NUMBER: 6 96 188 188 188 188 188 188 188 188 188 18	
l Wannel	Must	
Wrapped /	Aminos Was and a the end of each line The special desire in SERTED BY PTO SOFTWARE	
	Nucleics The numberhext at the end of each line "wrapped" down to the next line. This may occur if your file prevent "wrapping."  Clearly To a suppling of the next line of the next line of the next line. This may occur if your file prevent "wrapping."	
2Invalid Line	c Length 33	
1 44	c Length The rules require that a line not exceed 72 characters in length. This includes white spaces.	
Missligned,	Amino The numbering under sea of the spaces.	
Numbering	Amino The numbering under each 5th amino acid is misslighted. Do not use tab codes between numbers:	
Mon-ASCII	The sub-in- and in-	
	ensure your sulface file was not saved in ASCII(DOS) text as required by	• .
SVariable Leng	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please	
	each n or X22 can only represent a slagle residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some many represent a slagle residue.	
6 0	"" "" "WIGHE IN THE COOK STAY.	
GPatentin 2.0 "bug"	O DUE TO Description	
. oug	\$CQUCACedel	
	Mormally, Patentin would automatically generate this section from the the subsequent amino acid sequence. Please manually copy the relevant <220> <223> section to Artificial or Unknown sequence.	
	Artificial and a series sequence. This applies to the relevant <220> <221>	
) C1		
)Skipped Sequen (OLD RULES)	week Seducuce(e)	
1.000 (00003)	(2) INFORMATION FOR SEQ ID NO X (insert SEQ ID NO where "X" is sliown)  (1) SEQUENCE CHARACTERISTICS (Do not insert any with a strong strong)	
	(1) SEQUENCE CHARACTERISTICS (D. Where "X" is shown	
	(1) SEQUENCE CHARACTERISTICS (Do not insert any subheadings under this heading)  (21) SEQUENCE DESCRIPTION SEQ ID NO X_{insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped.	
	1 1 100ml	
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8 Skipped Sequence	Secure of the se	
(NEW RULES)	\$210) sequence If intentional please meeting to	
	cs Sequence(s) missing. If intentional please insert the following lines for each skipped sequence (400) sequence id number (400) sequence id number (400)	
	• •	
9. Use of n's or Xaa's	S. Use of nice	
(NEW RULES)	Per 1 833 of each State been detected in the Segment	
	Per 1.823 of Sequence Rules, use of <220>.<221> is MANDATORY if n's or Xaa's are present  Per 1.823 of Sequence Rules, use of <220>.<221> is MANDATORY if n's or Xaa's are present  Per 1.823 of Sequence Rules, the only valid <213.	
10 Invalid (1)>	De tons prease explain location of n or Xaa, and which residue are firesent	
Response	Per 1.82) of Sequence Rules, the only valid <213> responses are. Unknown, Artificial Sequence, or sequence of \$220>.<223> section is required when <213> responses are.	
	is Artificial Secures (220) (221) section was the Unknown, Artificial Secure	
11_ Use of <270>	scientific name (Genus species) <220>.<223> section is required when <213> response is Unknown. Artificial Sequence, or is Artificial Sequence.	
>	"Light of <221> is MANDATURY:	
	Use of <220> 10 <2213 is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 0001/1998, Vol. 63, No. 104 pp. 2001 to <223> section.	
12Patentin 2.0		
	Picase do not use most	
<b>.</b>		
Misuse of NX33 .	listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.  "n" can only represent a single nucleotide: "Year"	
	Can only (coresent a single	
	AMC - Biotechnology Systems On the string of amino acid	

AMC - Diotechnology Systems Dranch - 09/09/2003



**IFWO** 

RAW SEQUENCE LISTING DATE: 10/13/2004 PATENT APPLICATION: US/10/696,488 TIME: 10:12:28

Input Set: A:\sequence listing-1-02.txt
Output Set: N:\CRP4\10132004\J696488.raw

4 <110> APPLICANT: Cuenoud, Bernard Altmann, Karl-Heinz Martin, Pierre Moser, Heinz Ernst 9 <120> TITLE OF INVENTION: 2'-Substituted Nucleosides and Oligonucleotide Derivatives 11 <130> FILE REFERENCE: 4-20890B/C1 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/696,488 C--> 14 <141> CURRENT FILING DATE: 2003-10-29 16 <150> PRIOR APPLICATION NUMBER: 09/194,844 17 <151> PRIOR FILING DATE: 1999-05-14 19 <150> PRIOR APPLICATION NUMBER: PCT/EP97/02738 20 <151> PRIOR FILING DATE: 1998-05-27 22 <150 PRIOR APPLICATION NUMBER: Switzerland 1432/96 23 <15/2> PRIOR FILING DATE: 1996-06-06 SUCOZ-Please ERRORED SEQUENCES 25 <210 SEQ ID NO: 1 A 15 See Hem# II on error 26 <211 LENGTH: 20 27 <212× TYPE: RNA 28 <213 > ORGANISM: Homo sapiens E--> 0 (<160> NUMBER OF SEO ID NOS) W--> 29 <400> SEQUENCE: 1 30 aaugcauguc acaggcggga 173 <210> SEQ ID NO: 14 174 <211> LENGTH: 13 Please explain source of genetic makeral. 175 <212> TYPE: DNA -176 <213> ORGANISM (Artificial Sequence W--> 177 <220> FEATURE: W--> 178 <221> NAME/KEY: 2'-substituted sugar 179 <222> LOCATION: 4, 6, 12 180 <223> OTHER INFORMATION: Locations 4, 6, 12 = 2'-substituted sugar W--> 181 <400> SEQUENCE: 14 E--> 18 0 aggtgtccgc atc Fig. pe of errors shown exist throughou! : Socrence Listing. Please check subsequent sequences for similar errors

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10/13/04

20

tcccgcctgt gacatgcatt

PATENT APPLICATION: US/10/696,488

DATE: 10/13/2004
TIME: 10:12:29

Input Set : A:\sequence listing-1-02.txt
Output Set: N:\CRF4\10132004\J696488.raw

```
L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:0 M:282 E: Numeric Field Identifier Missing, <160> is required.
L:29 M:283 W: Missing Blank Line separator, <400> field identifier
L:36 M:283 W: Missing Blank Line separator, <220> field identifier
L:37 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2
L:40 M:283 W: Missing Blank Line separator, <400> field identifier
L:47 M:283 W: Missing Blank Line separator, <220> field identifier
L:48 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:51 M:283 W: Missing Blank Line separator, <400> field identifier
L:58 M:283 W: Missing Blank Line separator, <220> field identifier
L:59 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:62 M:283 W: Missing Blank Line separator, <400> field identifier L:69 M:283 W: Missing Blank Line separator, <220> field identifier
L:70 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:73 M:283 W: Missing Blank Line separator, <400> field identifier
L:80 M:283 W: Missing Blank Line separator, <220> field identifier
L:81 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:84 M:283 W: Missing Blank Line separator, <400> field identifier
L:91 M:283 W: Missing Blank Line separator, <220> field identifier
L:92 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:94 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:98 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:98 M:283 W: Missing Blank Line separator, <400> field identifier
L:105 M:283 W: Missing Blank Line separator, <220> field identifier
L:106 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:108 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:112 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:112 M:283 W: Missing Blank Line separator, <400> field identifier
L:119 M:283 W: Missing Blank Line separator, <220> field identifier
L:120 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:122 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:126 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:126 M:283 W: Missing Blank Line separator, <400> field identifier
L:133 M:283 W: Missing Blank Line separator, <220> field identifier
L:134 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10
L:137 M:283 W: Missing Blank Line separator, <400> field identifier L:144 M:283 W: Missing Blank Line separator, <220> field identifier
L:145 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11
L:148 M:283 W: Missing Blank Line separator, <400> field identifier L:155 M:283 W: Missing Blank Line separator, <220> field identifier
L:156 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:12
L:159 M:283 W: Missing Blank Line separator, <400> field identifier
L:166 M:283 W: Missing Blank Line separator, <220> field identifier
L:167 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13
L:170 M:283 W: Missing Blank Line separator, <400> field identifier
L:177 M:283 W: Missing Blank Line separator, <220> field identifier
L:178 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14
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PATENT APPLICATION: US/10/696,488

DATE: 10/13/2004
TIME: 10:12:29

Input Set : A:\sequence listing-1-02.txt
Output Set: N:\CRF4\10132004\J696488.raw

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L:181 M:283 W: Missing Blank Line separator, <400> field identifier
L:182 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:188 M:283 W: Missing Blank Line separator, <220> field identifier
L:189 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15
L:192 M:283 W: Missing Blank Line separator, <400> field identifier
L:199 M:283 W: Missing Blank Line separator, <220> field identifier
L:200 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16
L:203 M:283 W: Missing Blank Line separator, <400> field identifier
L:210 M:283 W: Missing Blank Line separator, <220> field identifier
L:211 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17
L:214 M:283 W: Missing Blank Line separator, <400> field identifier
L:221 M:283 W: Missing Blank Line separator, <220> field identifier
L:222 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18
L:224 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18
L:228 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
L:228 M:283 W: Missing Blank Line separator, <400> field identifier
L:235 M:283 W: Missing Blank Line separator, <220> field identifier
L:236 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19
L:238 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19
L:242 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:242 M:283 W: Missing Blank Line separator, <400> field identifier
L:249 M:283 W: Missing Blank Line separator, <220> field identifier
L:250 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20
L:252 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20
L:256 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:256 M:283 W: Missing Blank Line separator, <400> field identifier
L:263 M:283 W: Missing Blank Line separator, <220> field identifier
L:264 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
L:266 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
L:270 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
L:270 M:283 W: Missing Blank Line separator, <400> field identifier
L:276 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22
L:277 M:283 W: Missing Blank Line separator, <220> field identifier
L:278 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22
L:280 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22
L:284 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22
L:284 M:283 W: Missing Blank Line separator, <400> field identifier
L:0 M:203 E: No. of Seq. differs, <160> Number Of Sequences: Input (0) Counted (22)
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